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MEDICAL UNIVERSITY
OF
SOUTH CAROLINA

Annual Report
1973-1974



MEDICAL UNIVERSITY
OF
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1973-1974

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GENTLEMEN:

Health education, research and service have faithfully reflected the growth of the times, and this was never more apparent than in the past fiscal year. A strong economy, with consequent improved funding enabled the Medical University to move ahead in all areas of concern.

Among other developments, the Medical University demonstrated a sustained ability to attract prominent faculty. The high caliber of the faculty, in turn, was responsible for attracting the greatest amount of research funding in our history.

It should also be noted that with excellent faculty appointments in hospitals of the Medical Education Consortium, residents were drawn to South Carolina in such numbers as to fill all first-year positions. Again, this was an historic accomplishment.

It is with sincere pleasure, therefore, that we report on the year's activities and express our appreciation for the support we have received.

Respectfully submitted,

WILLIAM M. McCORD, M.D., Ph.D.,
President

WMMcC:nsh

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COLLEGE OF MEDICINE

As an organizational entity, the College of Medicine experienced moderate internal change in 1974; such changes generally were instituted to facilitate the delivery of new and/or expanded medical care services, e.g., the surgical section of "Emergency Medical Services", obstetrical sections of "Gynecologic Endocrinology and Fertility", "Gynecologic Oncology", "Maternal and Fetal Medicine", and the Anesthesiology section of "Respiratory Care and Respiratory Therapy".

Significant, too, was the completion of the Dean's office development plan with the appointment of eight assistant and associate deans to discrete areas of responsibility.

Spacial constraints limited the net physical growth of the College, and changes in physical plant were largely the reflection of the reallocation of existing space. There were, however, some notable exceptions which included the displacement of the offices of the Dean from the 2nd floor, west wing of the Hospital (with a resulting expansion of the Department of Otolaryngology) to offices on the first floor of the Basic Science Building. Physical Medicine experienced significant expansion.

Reportable too were the acquisition of four trailers (one each by the Departments of Preventive Medicine, Neurology, Psychiatry and the MEDEX Program) and various old residences (one by the Department of Psychiatry, and two by AHEC) adjacent to the University. And finally, although yet unrealized as net usable space, it is important to recognize the breaking of ground for the new Clinical Science Building and the Albert Florens Storm Memorial Eye Institute.

The College of Medicine's budget increased approximately one and one half million dollars over FY 1973; certainly, this was a reflection of the State's continuing commitment to a medical school of excellence.

The research component of the College of Medicine continued to grow in 1974 consistent with the concept that excellence in medical education is enhanced by a high spirit of inquiry. Using citations as a measure of research productivity, it is noteworthy that the various Departments reported 388 papers published in critically edited journals.

Summary of Research Support

	1971-72	1972-73	1973-74
Federal Research Grants	\$2,218,240	\$1,735,492	\$2,809,075
Non-Federal Research Grants	637,743	916,266	763,819
General Research Support Grants	162,510	124,488	140,475
TOTAL	\$3,018,493	\$2,776,246	\$3,713,369

The Cancer Center received considerable developmental attention in 1974. Work focused upon the organization of effort, the development of faculty commitment, recruitment of additional faculty, and preliminary planning of an identifiable physical facility. It is envisioned that the coming year will witness the development of a set of correlated and mutually supportive program project grants.

The College continued to recognize its corporate responsibility to the State through its various community service efforts. Most notable was the maturing process of the Consortium-Area Health Education Centers and growth in number and size of the Family Practice Residency Centers.

In 1974 a total of 61 faculty were added to the Consortium-Area Health Education Centers. The new faculty members and the existing Charleston faculty provided a broad spectrum of learning experiences for area physicians, medical and allied health students and hospital personnel. Each of these experiences was designed to enrich the level of health care being delivered in these regional centers.

Family Practice was enhanced through the addition of 11 faculty and the initiation of 2 new programs (Anderson and Columbia). The objective of both programs is, of course, the moderation of the numbers, specialty mix and dispersion of physicians in South Carolina by attracting the interest of both undergraduate (students) and graduate physicians (residents).

CONSORTIUM-AHEC PROJECTS

1972-1974

Faculty	July 1, 1972	July 1, 1974
Columbia	20	48
Greenville	3	63
Spartanburg	6	88
Total	29	199

Students	July 1, 1972	July 1, 1974
Columbia	1	10
Greenville	2	7
Spartanburg	0	13
	—	—
Total	3	30
Interns		
Columbia	1	9
Greenville	8	10
Spartanburg	2	11
	—	—
Total	11	30
Residents		
Columbia	23	27
Greenville	34	56
Spartanburg	12	34
	—	—
Total	69	117

The College of Medicine was visited by a survey team representing the AMA Liaison Committee on Medical Education in January. The survey team recommended accreditation for a full seven year period ("on its evidence of tremendous progress that had occurred since the last survey of the institution three years ago"). Apparently, however, Committee fear of a declining level of State support resulted in a reduction of the site visit team's recommended approval period to four years.

The development of self-instructional materials continues to be a major thrust of curriculum development. One such effort of particular significance is the Department of Psychiatry and Behavioral Science's, "Psychiatry Teaching System: A multimedia text in basic Psychiatry". The work seeks to teach basic psychopathology to students of medicine and the allied health disciplines.

In mid-year, an Office of Medical Education was established within the College. Its purpose is to serve the College of Medicine as a resource for studying, developing, planning and assessing educational progress and to provide resources and guidance for the evaluation of teaching program effectiveness.

The Minority Students Program was highlighted by summer quarter activities designed both to prepare selected students for the challenge of the fall quarter, and to motivate, advise and select

others for health careers. In the latter group, all of the students were sufficiently stimulated to submit applications for matriculation in the College of Medicine and other schools of the University following graduation from college next year.

The year 1974 is the occasion of the Medical School's 150th birthday. The South's oldest medical school began its celebration at the June 6th commencement and during the course of the year each of its departments will host programs featuring distinguished Sesquicentennial speakers.

The Medical University family was saddened by the death of Dr. Kenneth M. Lynch, Jr., on February 10. As Professor and Chairman of the Department of Urology, Dr. Lynch served on the faculty of the College of Medicine for 24 years.

COLLEGE OF DENTAL MEDICINE

With the approval of the Council on Dental Education, new graduate programs in the area of fixed and removable Prosthodontics and in Pediatric Dentistry were inaugurated on July 1. Three students were accepted in Prosthodontics, and throughout the year the program drew the participation of many distinguished visiting clinicians and lecturers. The program in Pediatric Dentistry has developed with a strong liaison with the Department of Pediatrics of the Medical University Hospital. Pediatric Dentistry students provide services in and share educational experiences with the Department of Pediatrics, with dental faculty holding hospital appointments.

Application was made to the Council on Dental Education to start a hospital-oriented general dentistry residency as of July 1, 1974. Approval was received and three students accepted.

Having attended full academic sessions during the summer quarters in 1972 and again in 1973, most of the fourth year students had completed their entire curriculum by December, 1973. As a result, the Administration and the Board of Trustees of the Medical University approved a special graduation for this class to be held on December 15. On this occasion, 40 students received their diplomas. The commencement speaker was Doctor J. F. Volker, President of the University of Alabama in Birmingham, who as a former consultant to the S. C. Dental Association, had been instrumental in the development of a dental school in South Carolina.

Following a program of vigorous recruitment, two black male students and one black female student matriculated. Four additional females were accepted.

Attempts to develop additional extramural clinical and associated experience for students were continued. With the support of the Charleston County Council, dental facilities at Charleston County Hospital were entirely rebuilt and became operational in the Spring. Students rotate through this Clinic on assignment with Oral Surgery residents in the provision of emergency and surgical dental services. Negotiations were completed with the Family Practice program of the University for the building of three clinical dental working units and construction is nearing completion. In the next year, general dentistry residents and dental students will be assigned to this clinical area of rotation. The comprehensiveness of the health care provided and the computerized record keeping methods make this an educational experience of special value to dental students.

The following administrative appointments were made at the College: Dr. Arthur Haisten, Assistant Dean for Admissions and Student Affairs; Dr. Robert Jordan, Director of Early Clinics and Auxiliary Programs; Dr. William B. Kinney, Director of Anesthesia and Pain Control; Dr. Richard Marsh, Acting Chairman of the Department of Oral Medicine and Clinic Dental Director; Mr. Robert Comer, Clinic Administrator; and Dr. John Jarrett, Acting Chairman of Oral Pathology.

The Office of Education was started on July 1 with the appointment of Dr. Frank Penta as Director. During the year three additional faculty appointments were made. Personnel of the Office began immediately to work with faculty in developing new programs.

In cooperation with the Library of the Medical University, a Learning Resource Center was set up in the College. The center contains 15 study modules and instructional programs in various audiovisual formats. One-hundred and six programs are now available, each having been appraised and approved by faculty at the request of the Office of Education. Twenty-two instructional programs were developed by faculty in conjunction with the Office. Each of these programs has an instructional guide which provides the student with the objectives, a program outline and an evaluation of his learning. During the next year it is hoped that continued development of this kind will allow significant parts of the curriculum to be made available on a self-instructional basis.

Computer Assisted Instruction on the PDP 11/20 Computer was developed during the year. In July, National Board questions were entered and made available to students in preparation for the examination. Further questions were entered later in the year and

were used by the students for the March examination. Two other major areas of computer assisted instruction were developed and tested: (1) a program on Arch Length Analysis associated with clinical problems in the growth of the jaws and (2) simulated clinical case histories on medical and dental problems. These exercises utilized the full interactive capabilities of the computer, thereby providing immediate feed-back and reinforcement for the student's educational benefit.

Initial steps were taken in preparation for computer allocation of patients to students and computer monitoring of student and patient clinical progress. This is a complex management and programming task which will be implemented gradually over the next few years.

The increased number of faculty required the development of more office space within the building. Reconstruction of the fifth floor lobby to house Crown and Bridge Department offices was completed.

The need to provide full technical services to students in the clinical program led to the construction of a laboratory on the second floor for dental technician services. This laboratory, which is fully equipped for all kinds of dental work, cost \$57,976 and is designed to accommodate 25 technicians. It is intended to provide technical services for the students and faculty of the College of Dental Medicine as well as training and educational opportunities for dental technician students of the College of Allied Health Sciences.

In conclusion, the progress much in evidence throughout the College resulted in the granting of full accreditation to the school by the Council on Dental Education on December 6, 1973.

COLLEGE OF GRADUATE STUDIES

The College continued to work toward establishment of an intellectual milieu which would attract gifted scholars and investigators to the faculty of the Medical University of South Carolina.

The Graduate Faculty is appointed from members of the faculty of the other colleges having strong and demonstrated interest in research. The Graduate Faculty, now numbering more than 103 members, have doctorates from 67 different institutions, including 11 from Universities outside the United States. These varying backgrounds provide the student with a wide range of choices when a research director is selected.

Approximately one-half of the Faculty attended a three day retreat in Santee State Park. The time was devoted to an intensive study of four topics—Graduate Faculty, Admissions, Curriculum, and Special Programs, with the final session being used to summarize the findings and to adopt desirable items. This conference marked the first time that the Graduate Faculty had concentrated its attention on purely graduate matters over a prolonged period.

The Self-Study which was begun earlier is giving both faculty and students an opportunity to scrutinize all aspects of organization, instruction, curriculum and operations. All have cooperated well. Questionnaires to the faculty and students, and the alumni as well, are requesting suggestions and criticisms which will be incorporated in the final analytical presentation.

Eighty-six graduate students were enrolled during the current session with 47 in the M.S. degree and 39 in the Ph.D. degree programs. Enrollment by department was as follows: Anatomy 15, Biochemistry 19, Biometry 16, Microbiology 12, Pathology 11, Pharmacology 9, and Physiology 4.

COLLEGE OF PHARMACY

The College received approval to reimplement the Doctor of Pharmacy program effective the 1974-75 year. Ten candidates were selected for this first class. Four were from the present fifth year class and six were graduates from four Colleges of Pharmacy. Three major areas of specialization are offered: community practice, institutional practice, and as drug information specialists.

Adoption of the Quarter System, wherein the Fall Quarter begins at the end of September instead of in August, allows greater flexibility in course scheduling, particularly in the fifth year.

All student organizations had an active year. A drug abuse program was carried out in conjunction with the Charleston County School System. The students also received a "Project Speed" grant to teach drug abuse to health professionals in the amount of \$7,500. In addition, the students carried out two extensive State-wide surveys, one dealing with internship and another with the expanded pharmacist role on the health care team. Based on the data collected, the students, working with their counterparts at the University of South Carolina, appeared before the Board of Pharmacy requesting certain internship changes. Planning was done for a regional "Team Health Care Seminar" for students. Charleston expects to be the host city.

A total of \$59,250 in Health Profession Scholarship and Loan money was awarded to 72 students. In addition \$5,500 in general scholarships and \$9,800 in John W. Dargavel loans were made available to an additional 23 students. In all, 95 students received some form of financial aid.

The College received a \$108,000 federal Capitation grant. In addition the College received second year funding of its Special Project Grant to recruit and retain minority students in the amount of \$40,000 (3 year total). The College also was awarded \$18,000 by the South Carolina Regional Medical Program during the third and final year to continue its INFORM program (state wide poison and drug information). The College, working with the U.S.C. College of Pharmacy and the State Board of Health, presented a two day Pharmacy Service in Nursing Home program through a Public Health Service grant.

The hospital pharmacy has undergone the first two phases of a total remodeling program. Phase one included a greatly enlarged stockroom area. Phase two expanded the manufacturing facilities and six new clinical faculty offices and a conference room. Phase three, to be completed in August, will include a new operational pharmacy area, a greatly expanded poison and drug information room, a classroom, and one additional clinical faculty office.

COLLEGE OF NURSING

In August, steps were taken with the appointment of two new faculty members to establish a Nurse-Midwifery Program. The immediate goal was to initiate a service which would create an opportunity for the integration of the nurse-midwife into the obstetrical health care system in South Carolina.

The first phase of this program involved interpretation of nurse-midwifery within the University and the community. This was accomplished by individual interviews with key personnel at the University as well as group meetings with the University employees and other agencies in the community. A movie was shown, pamphlets distributed, and discussions held at gatherings, such as with the Public Health nurses, general faculty, and the Hospital Executive Committee. The news media were most helpful in bringing the program to the public's attention.

The nurse-midwives then participated in giving direct patient care in the antepartum clinic, labor and delivery service, postpartum ward, newborn nursery, and postpartum and family planning clinic. As a result of nurse-midwifery contact in the ante-

partum service, a request was made for an inservice program for the clinic nursing staff. This was arranged and resulted in positive relationships with the clinic staff and expansion of the patient education program in the clinic.

In cooperation with the OB-GYN Department, a manual of policies and procedures for nurse-midwives was prepared and circulated to personnel within the obstetrical department. Procedures for consultation were determined.

Job descriptions for nurse-midwives were written and three grades were established within the State Classification System of the Personnel Division of the State of South Carolina.

The addition of two nurse-midwives (C.N.M. II's) and two other faculty nurse-midwives who joined the program in November permitted an expansion of nurse-midwifery activities to include the Adolescent Clinic and the initiation of Satellite Clinics at St. George and Moncks Corner.

In November a schedule was developed on a trial basis to cover the labor and delivery unit for twenty-four hours a day, seven days a week. This was done in preparation for developing a case-load of patients. This experience provided a demonstration to the rest of the obstetrical team members of the scope of nurse-midwifery activities in the intrapartum area. The nurse-midwives were assigned patients, cared for them in labor, evaluated their progress, delivered them, performed and repaired episiotomies when indicated. The nurse-midwives also supervised medical student deliveries. The patients delivered by the C.N.M.'s were then visited postpartum for physical evaluation counseling and given appointments to be seen by C.N.M.'s for their six week checkup.

A key punch card was developed for keeping statistics on the patients followed by the nurse-midwifery service.

Another major development was the installation of a satellite Learning Resource Center featuring twelve learning stations and a practice area with four hospital beds. The main objective is to allow students to become more independent in their learning through the use of self-instructional materials. Materials have been purchased for the following areas: Fundamentals, Medical-Surgical Nursing, Obstetrical Nursing, and Nurse-Midwifery.

The Learning Center will be open approximately 59 hours per week so students will be able to better schedule their time. Senior nursing students have been employed as attendants. Their responsibility will be not only to assist students, but to review literature for suitable material.

Continuing Education provided a total of twenty-two days of programs and 5,978 student contact hours. Approximately thirty persons were faculty, the majority registered nurses.

Continuing education units were awarded to 205 persons, based for the most part on evaluation of learning from written evidence.

Program offerings consisted of:

	Registrants
The Nurse in Occupational Health in 1973	37
Nursing Management of the Patient with Hypertension	34
Nursing Management of the Child with Leukemia	41
Care of the Dying Child and His Family	347
The Teaching Role of the Nurse	35
Changes, Issues and Newer Legal Trends in Nursing ..	84
Extending the Scope of Nursing Practice	17
The Nurse as a Manager of Patient Care	16
Total	611

COLLEGE OF ALLIED HEALTH SCIENCES

Student recruitment reached the highest quality and quantity levels in the history of the College. Stabilized enrollment figures in the upper division (baccalaureate and postgraduate) programs showed an increase to a total of 155. Lower division (certificate/associate degree) reached a level of 215. This represents an increase of 78 students over the 1972-1973 figures. The academic qualifications of applicants to upper division programs were comparatively higher.

Recruitment of highly qualified faculty continued. The overall average number of years of post-secondary background education of full time faculty increased to the point that a two-plus years change has been recorded since 1972. The faculty now numbers 122, with 53 of these essentially full time, 18 joint appointments, and 51 clinical appointments. This represents an increase of 17 for the period.

Students were accepted for the first time in the highly competitive Physical Therapy Program. Included were 14 at the Junior level and 3 at the Freshman level. Four full time members served as the faculty nucleus for Physical Therapy during the past year.

A new program in Dental Hygiene began activation with the appointment of two full time faculty members. A post-certificate baccalaureate phase of the program has accepted students for the fall quarter.

The number of programs in the upper division is eight. Lower division cooperative programs now number nine, with six presently active.

All programs in the College are accredited by their respective professional bodies. During the past year the Physician's Assistant (MEDEX) Program received preliminary approval from the American Medical Association. In addition, its first group of students, taking the Certifying Examination For Primary Care Physician's Assistant (National Boards), performed exceptionally well, finishing above the national mean though in direct competition with those from baccalaureate and postgraduate level programs.

Affiliations with other Colleges and Universities throughout the State continued to operate effectively during the year. A new agreement with the College of Charleston allowed acceptance of a limited number of freshman-level students for the first time in upper division baccalaureate programs. Conjoint programs in the lower division with the Trident Technical College continued to prosper. Three new programs were approved as cooperative ventures: Dental Laboratory Technology, Extracorporeal Circulation Technology, and Ophthalmic Technology. Student acceptance in these new programs is planned for the 1974-1975 period at appropriate times.

The College of Allied Health Sciences received sizeable support in terms of grants and contracts during the 1973-1974 period. Included are the largest National Institutes of Health (NIH) grants awarded in the history of the College. Support contracts for the Physician's Assistant (MEDEX) Program and the Practical Nurse Program continued in effect for the year. A new agreement entered into with the Veterans Administration Hospital enabled an expansion of cooperative educational ventures at that institution.

The College changed over entirely to the quarter system during the year and adapted to a new University Calendar. This action has opened up a large number of Medical University courses on the campus to the upper division students. A careful study of all ongoing curricula continued and significant changes were made during the year particularly in the quality of "core" courses offered to students in the various programs.

The faculty continued to be very active on both local and national levels. The College was proud to note that the program director of the Dental Assisting Program, Miss Claire Williamson, served as national president of the American Dental Assistants Association, an organization with over 25,000 members.

MEDICAL UNIVERSITY OF SOUTH CAROLINA
ENROLLMENT
1973-74

House Staff

Interns	37
Residents	213
TOTAL	250

College of Graduate Studies

Master of Science	47
Doctor of Philosophy	39
TOTAL	86

College of Medicine

First Year	165
Second Year	169
Third Year	164
Fourth Year	123
TOTAL	621

College of Dental Medicine

First Year	56
Second Year	48
Third Year	49
Fourth Year	48
TOTAL	201

College of Pharmacy

Third Year	63
Fourth Year	53
Fifth Year	39
TOTAL	155

College of Nursing

First Year	66
Second Year	78
Third Year	57
Fourth Year	45
TOTAL	246

College of Allied Health Sciences

Baccalaureate Programs	54
Associate Degree Programs	162
Certificate Programs	141
Special Students	2
TOTAL	359

Total Enrollment	1918
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DEGREES AWARDED

1973-74

Graduate Studies

Masters	5
Doctor of Philosophy	5
TOTAL	10

Medicine	134
Dental Medicine	60
Pharmacy	36
Nursing	42

Allied Health

Medical Technology	2
Cytotechnology	2
Medical Records Administration	6
TOTAL Baccalaureate	10

Practical Nursing	31
Medical Technology	17
Anesthesia for Nurses	9
Cytotechnology	6
Physician's Assistants (MEDEX)	30
Histologic Technique	8
Applied Engineering and Health Training	2
TOTAL Certificate	103

MEDICAL UNIVERSITY HOSPITAL

During the reporting period, the Hospital provided 134,521 adult patient care days and 7,518 newborn care days. The average daily number of adult patients was 369; and the number of newborn patients averaged 21, while the percent of occupancy was 78.5.

The total operational cost of the Hospital for the year amounted to \$23,743,909, of which \$8,061,237 was State Appropriated. Generated cash revenue increased from \$6,550,607 in 1969-70 to \$15,963,100 in 1973-74.

The Joint Commission on Accreditation of Hospitals surveyed the Medical University Hospital in October and awarded full accreditation for two years. The Commission commended the Hospital for maintaining high standards and for its constant effort to improve the quality of patient care.

The year was a period of great development for the Hospital's Division of Clinical Nursing. The following significant activities occurred:

- A total of ten new positions were established. These included: Three Assistant Directors of Clinical Nursing (for Departmental Services, for Critical Care and for Research Coordination); Two Nurse Clinicians (for Intestinal Surgery and for Burn-Trauma); Four Staff Assistants (for the 5th, 6th, 7th and 8th Floors); and a Community Health Coordinator.
- Educational programs presented by the Office of Staff Development numbered 609. In addition, thirty-two nursing employees completed courses through the Employee Development Training Program of the University.
- The Division of Clinical Nursing, in conjunction with the College of Nursing, presented a Neonatal Intensive Care Course. Representatives from eight hospitals in the State participated in this course.
- During the summer of 1974 there were fifty-eight nursing externs and thirty-nine nursing interns present at the Hospital. This represents a significant increase over 1973.
- Recruitment efforts were greatly intensified, resulting in a net increase of 40 professional nursing personnel during the period January 1974 to July 1974. As of July 1974, the total professional nursing staff for the Medical University Hospital numbered 207.

Major physical improvements in the Hospital in 1973-74 included: expansion and relocation of the Hemodialysis and Kidney Transplant Unit on the 6th Floor; and opening of the addition on the west end of the Hospital housing Physical Medicine and Rehabilitation facilities, the Division of Cardiology, a new Coronary Care Unit, an additional Heart Catheterization Lab, and 14 beds for Physical Medicine patients. In addition, work was begun on a High Risk Delivery Suite, a Pediatric Intensive Care Unit, and a General Clinical Research Center (Clinical Pharmacology). It is anticipated that these patient care areas will be operational in Fall 1974.

New facilities for Pharmacy Manufacturing were completed on the 1st Floor as well as a new Pharmacy Unit-dose Sub-station on the 7th Floor. With the addition of this Sub-station, drugs are dispensed on a Unit-dose system in all the general nursing areas, making the Medical University Hospital one of the leaders in the Nation in drug administration.

With the increasing emphasis on ambulatory care, the Hospital administrative staff was expanded to include an Assistant Hospital

Director for Ambulatory Services. This will allow Hospital Administration to better meet the administrative and operational needs of the Hospital.

The year also marked the initiation of an Administrative Residency in conjunction with the Program in Hospital and Health Administration at the Medical College of Virginia. The administrative Residency year is the second half of a two-year program for a Masters Degree in Hospital Administration.

LIBRARIES

A highlight of the year was the establishment of a Learning Resource Center within the Library as well as two satellite learning centers—one in the College of Dental Medicine and the other in the College of Nursing. The scope of the Center will be greatly enlarged as the result of federal approval to proceed with construction of a fourth floor for the Library-Administration Building.

Altogether, federal grants in the amount of \$197,811 were received to continue the development of Library-Learning Resource Centers in each of the Area Health Education Centers and to continue providing statewide extension library services as well as to establish the Medical University Center.

During the year, 10,516 monographs and bound journals were added to the collection, bringing the total to 96,269. The number of current journals received increased to 2,273. It should be added that the full potential to support educational and research programs could not be exercised because of inflationary book and journal prices along with devalued dollars for the purchase of foreign publications.

The Reference Department completed 881 manual literature searches; MEDLINE searches numbered 1,004; and 520 SDI (Selected Dissemination of Information or current awareness) searches were run using the MEDLINE computer terminal. The Interlibrary Loan and Extension Divisions provided 5,075 monographs or photocopies of journal articles to users throughout the State and the Southeast; 1,178 items were borrowed for MUSC users. Circulation for 1973-74 rose to 36,742 items borrowed.

The Library continues to serve as a Resource Library of the Southeastern Regional Medical Library Program (SERMLP) and as a member of the Charleston Consortium. The Library received \$4,593 from SERMLP for its role in providing information to institutions and individuals in the Southeast.

At the request of the National Library of Medicine, a plan for the delivery of health sciences information in South Carolina as part of a regional biomedical communications network will be developed for implementation in late 1975.

WARING HISTORICAL LIBRARY

Major preparations for the sesquicentennial celebration of the Medical University were undertaken by the staff. The curator, as chairman of the Sesquicentennial Committee, wrote a history of the University for a commemorative book of historical essays and arranged for its publication. The preparation of the June issue of the *Journal of the South Carolina Medical Association* was also under his charge, and he wrote a shorter history of the University for the August issue (1974) of the *Southern Medical Journal* which was devoted in its entirety to this institution.

The Waring Library supplied the items and information for the Rare Books and Historical Instruments exhibits which have been placed in the lobbies of the College of Dental Medicine—Basic Sciences Building in celebration of the Sesquicentennial. The changing exhibits in the case in the vestibule at the entrance to the main library have been devoted to historical vignettes of members of the first faculty.

The library spent approximately \$2,000 this year for the purchase of rare books and facsimile editions of rare books. Included in this figure were the first three volumes of the Codex Atlanticus, a restored edition of Leonardo da Vinci's works. Also purchased was an 100-year-old small field microscope made in Germany, with the use of the Wyman Fund. The library received approximately 40 books as gifts during the year and a valuable collection of six antique microscopes. It received also the papers and scrapbooks of Dr. Robert B. Taft, former professor of radiology at the Medical College who was interested in lost radium. A detailed list of the Waring Library's acquisitions and gifts is published quarterly in the bulletin of the Health Affairs Library, *Library Notes*.

The curator of the Waring Library served as chairman of Local Arrangements for the Annual Meeting of the American Association for the History of Medicine which was held in Charleston May 1-4. He edited "The Diary of William G. Hinson During the War of Secession." Part I in the *South Carolina Historical Magazine* 75:14, January 1974 and Part II in the *SCHM* 75:111, April 1974.

DIVISION OF CONTINUING EDUCATION

With the assistance of Title I Fund grants, the Division launched a concerted campaign to assist the 82 general hospitals in the State to train and recruit workers in the hard-to-fill occupational health positions.

Occupational positions—always identified with a big turnover as well as being in short supply in hospitals—include such employees as ward clerks, housekeepers, and food service, maintenance and other service personnel.

This effort was bolstered by a program designed to develop and upgrade teaching skills for in-service training at local hospitals and provide for teaching aids in the form of audiovisual resources to assure a meaningful and worthwhile course of instruction. A series of four workshops was offered, with backup continuation through a series of closed-circuit television programs, coupled with a telephone hook-up for questions and answers. Expansion of these and related activities is being made possible by additional project grants from the S. C. Regional Medical Program.

The public mass media have also been enlisted to assist in attracting employment and disseminating information about the health field and its various opportunities.

A committee for planning and evaluation of these programs meets regularly. On it are representatives from the S. C. Hospital Association, Carolina Association of Health Educators, S. C. Association of Hospital Personnel Directors, S. C. Education Television and the Medical University.

Summary of Health Communications Network Programs

Open Circuit Broadcasts	48
Average Audience (Estimate) each program 600	28,800
Closed Circuit Talkback	112
Total attendance	4,042
Breakdown of Audiences	
Physicians	44
Registered Nurses	1,440
Technicians, Housekeepers	
Food Service, Others	2,558
Cassette Library	
Audiocassettes	700
Videocassettes	400

A new dedicated telephone system which offers 24 hour a day service by a two digit dial access was placed in operation in January, 1974, as an integral part of the Network. This circuitry can link all Network members for a general talk-back for purpose of discussion of a simultaneous telecast or can be utilized as a conference telephone to connect two or more stations for an audio presentation.

For the program year beginning in September 1974, the Division will offer approximately 21 hours per month of TV time over open and closed circuits. Significant expansion of the Health Communications Network is foreseen. During the past six months there has been serious inquiry from more than 12 hospitals to join the Network. Three institutions, Colleton County in Walterboro, Hampton County of Varnville and Chester County Hospital of Chester have affiliated, bringing the number of Network members to 19.

Patient education via television is an area of great interest at this time. To meet the demand, the Network is exploring several ideas to develop for viewing while the patient is hospitalized or in the physician's office. Currently in production is a series for the Diabetic and his family. This is being produced in Spartanburg with the County Health Department and local physicians. Winthrop College in Rock Hill is producing a series of programs in the area of Dietetics. Other valuable contributions are anticipated from academic institutions.

The Director of the Continuing Education Division arranged and chaired a meeting of the S. C. Medical Association's Committee on Continuing Medical Education at Columbia in September. At this meeting, a set of educational goals was adopted which have been accepted by the Association.

The provision of speakers for the military hospitals and the County Medical Societies over the State continues to be a desired service by the Division and during the year, speakers were provided for 14 meetings with an attendance of approximately 500 physicians.

The Family Practice Refresher Course has proven to be exceptionally popular, requiring two programs a year to accommodate all applicants. It appears this course will regularly be held in February and September.

The Division also assisted in the development of the scientific program for the Southeastern regional meeting of the American College of Physicians and is providing technical assistance and monetary support of Sesquicentennial seminars.

DIVISION OF CONTINUING EDUCATION COURSES

Date	Title	Attendance
Aug. 29	Radioimmunoassay Workshop	46
Sept. 24-29	Family Practice Review Course	41
Oct. 25-26	Nursing Management of the Patient with Hypertension .	32
Nov. 7	Clinical Concepts in Diabetes Mellitus	243
Nov. 19-20	Extending the Scope of Nursing Practice	17
Nov. 27	Effective Utilization of Bio-Medical Equipment Technicians	20
Dec. 4	The Real Nature of the Electrical Safety Problem	60
Jan. 14	Legal Aspects of Medical Device Utilization	80
Jan. 21-22	Extending the Scope of Nursing Practice	17
Jan. 25-26	1st Annual Ophthalmology Refresher Course	26
Jan. 28	New Developments in Engineering in Medicine	50
Feb. 3-9	5th Annual Family Practice Refresher Course	81
Feb. 4	Fact and Fiction in Medical Instrumentation	50
Feb. 8-9	Neurophysiologic Foundation of Therapeutic Exercise ..	56
Feb. 13-15	Nursing Management of the Child with Leukemia	40
Feb. 14	The Dying Child and His Family	306
Mar. 11-12	The Nurse as a Manager of Patient Care	16
Mar. 14-15	The Teaching Role of the Nurse	34
Mar. 18-19	Extending the Scope of Nursing Practice	17
Mar. 22-24	Fourth Annual Neuropathology Review Course	19
Mar. 24-26	Obstetrical and Gynecological Spring Symposium	52
Mar. 29-31	Sex Therapy Workshop	90
Apr. 6	Cytology Seminar No. 10	81
Apr. 12	Changes, Issues and Newer Legal Trends in Nursing ...	84
Apr. 18-20	Southern Gynecological and Obstetrical Society Travel Meeting	47
May 7-8	Extending the Scope of Nursing Practice	17
May 13-14	The Nurse as a Manager of Patient Care	16
June 10-14	It's Your Community Health	31
	Sub-total	1,669

OFF CAMPUS PROGRAMS

Mar. 14	South Carolina Forum on Child Protection—Columbia .	600
Mar. 19	18th Greenville Postgraduate Seminar—Greenville	250
Mar. 25	Governors' Conference on Physical Fitness in Business, Industry and Government	150
Mar. 26	PSRO Conference—Columbia	50
Apr. 8	Quality Assurance Conference—Georgetown	30
Apr. 18-19	Dietetic Association Spring Workshop—Orangeburg ...	100
June 19	South Carolina Medical Education Committee	7
June 19	State Chronic Renal Disease Committee	13
	Sub-total	1,200
Oct.-Mar.	Beaufort Naval Hospital Lecture Series	280
Sept.-April	Kershaw County Medical Society Lecture Series	240
	Sub-total	520
	TOTAL	3,389

SOUTH CAROLINA REGIONAL MEDICAL PROGRAM

After a worrisome period of cutbacks, a federal court order was issued releasing impounded funds for the nation's Regional Medical Programs. This Office responded rapidly with a set of well thought out programs for which funding in the amount of \$2,090,374 was received for the period carrying through August, 1975. A supplemental request of \$1,473,303 was later prepared, announcement of an award determination expected in August, 1974. If received, the award would permit the funding of an additional 20 projects for a total of 65 projects.

OPERATIONAL AND FUNDED PROJECTS

- 32 Program Staff
- 60-B Screening Program for Hypertension in Children
- 66 Quality Assurance for Diabetics
- 67 Perinatal Quality Assurance
- 68 Rural Mobile Health
- 69 Shared Manpower Development Program
- 70 Pee Dee Hospital-Based Manpower Development
- 71 Advanced Training of EMTs
- 72 Criteria to Improve Hospital/Ambulatory Services
- 73 Improved Communications in Quality Assurance
- 74 Upper Savannah Quality Assurance Program
- 75 Computerized Care in Renal Disease
- 76 Community Hypertension Control Program
- 78 Screening for Uropathies and Hypertension in Children
- 79 Hospital Medical Care Evaluation System
- 80 Intensive Course in Neonatal Care Nursing
- 81 Catawba Areawide Health Data Base
- 82 Hypertension Study of Black Males in Charleston County
- 83 Demonstration Hypertension Control Program
- 84 Queueing Methods to Improve Ambulatory Care
- 85 Oncology Radiation Dosimetry Program
- 86 Retraining of Medical Laboratory Personnel
- 87 Waccamaw District Health Planning
- 88 Lowcountry Regional Planning Council EMS Study
- 89 Upper Savannah Health Planning Information Program
- 90 Nurse Midwifery

Priority I—Regionalization of Services (32A)

- 91 Upper Savannah Pulmonary Rehabilitation Services
- 92 Upper Savannah Shared Hospital Services
- 93 Regionalization Program for Epilepsy
- 94 Public Involvement in Health Development
- 95 Regionalization of Specialized Nursing Home Services
- 98 State Nutrition Committee Development

Priority II—Health Manpower Development and Improvement (32B)

- 103 Advanced Techniques in Nuclear Medicine
- 104 Area-wide Regionalization of Health Manpower Programs

Priority III—Strengthening of Quality Assurance Efforts (32C)

- 107 Bioengineering Center Feasibility Study
- 108 Statewide Patient Information Program
- 109 Quality Assurance for Practicing Nurses

Priority IV—Special Categorical Interests (32D)

- 113 Identity of Risk Factors in Esophageal Cancer
- 114 Extension of Gynecological Oncology Programs
- 115 Beaufort-Jasper Hypertension Services
- 116 Lowcountry Rural Health Care
- 117 Lowcountry Diabetes Detection and Control Program

Priority V—Primary Health Care (32E)

- 124 Quality Access Program in Private M.D. Offices
- 125 Trident Mobile Health Clinic
- 126 Ambulatory Surgical Services

With regard to regional development of a Health Services Agency, the S. C. Regional Medical Program's Advisory Group (RAG) has been closely monitoring all pending health legislation in the U. S. Congress. This has become an integral part of overall Program planning and has received particular emphasis since the phase-out orders of February, 1973. Concepts embodied in draft legislative proposals for an emergent health system and associated agencies clearly indicate continuation in some form of functions currently provided by RMP, CHP, and Hill Burton. It is the expressed objective of RAG to facilitate a smooth transition in South Carolina to the emergent mechanism, and to do so in such a manner that existing resources are fully utilized and duplicative efforts minimized. This is viewed as an unprecedented opportunity in South Carolina to logically build upon and move forward from an existing base of strength—rather than discarding the base and starting over again. The similarities in each of the recent legislative proposals offer the information upon which various realistic options for response to final legislation may be developed for immediate implementation when appropriate.

The impact of the Regional Medical Program on the state has been appreciable since its beginnings in 1967, as the following figures indicate:

Type Project	Reviewed	Funded
Operational	136	* 89
Developmental	36	28
Contract	28	25
TOTAL	200	*142

* Note: Depending upon amount of funds received in August, an additional 21 projects are approved by RAG for funding. This would change the operational funded figure to 110 and the Total Projects Funded to 163.

Geographically, all nine cities of South Carolina with a population greater than 20,000 have been the location of one or more projects. In addition, project service and education has been provided in 70 percent of all other cities with a population greater than 5,000 plus a substantial number of cities or towns with a population less than 5,000.

DEVELOPMENT AND PUBLIC RELATIONS

Major new programs were initiated in all divisions during the year to enhance university relations and resources. Of particular note were the Physicians' Placement Service and Medical University Fund, both receiving warm acceptance by alumni and other supporters.

The Placement Service, through semi-annual publication of listings, encouraged physicians to locate in South Carolina to the benefit of a number of communities. Mailings were made to all practicing physicians in the state as well as to all alumni nationally. In response, numerous physicians requested that the service be continued indefinitely.

A highly auspicious first year of the Medical University Fund was completed as pledges and cash contributions totaling approximately \$700,000 were received. Among these contributions were a \$100,000 trust fund for scholarships, a \$100,000 gift for Dentistry and a \$125,000 pledge to establish a Professorship. Great interest in the progress of the Medical University was expressed in the many personal contacts made, lending encouragement to prospects of growing private support for vital programs.

In its continuing efforts to further statewide cooperation, the Public Relations Office became a founding member of the Carolinas Hospital Public Relations Society and helped initiate a state health

information program which has received substantial funding from the Regional Medical Program.

The Office also had full involvement in plans and activities of the College of Medicine's Sesquicentennial Celebration. It provided editorial services and assisted in the production of the film "The Gallant Years", whereas the Alumni Office was delegated to handle sales of the Sesquicentennial Medallion and commemorative book of historical essays.

The first overseas Continuing Education trip for medical alumni was conducted in November, 1973, to the great satisfaction of the 127 persons taking the flight to Bermuda. As a result of the excellent reception, a second trip is planned for November, 1974, to Acapulco, with a third trip in prospect the following year to London.

Honoree at this year's annual dinner of the Medical Alumni Association in Myrtle Beach was Dr. William M. McCord, Medical University president, who was cited for his long and outstanding service to the institution.

Steady functioning of the Alumni Office, despite the growing scope of its programs, was made possible by the addition to the staff of an Assistant Director.

Purchase of a new Heidelberg press in the printing division boosted production capacity and provided a much needed capability for multi-color work. Its true and steady performance was evidenced in the very first two jobs assigned to it, the Student Film Group's calendar and the color aerial print which was distributed to all employees at Christmas.

In the fund raising area, the Office of Development designed and produced a unique magazine aimed at stimulating increased private financial support to the Medical University. Entitled *Auctus* (Growth) it won national honors and resulted in an invitation to the director to discuss the publication at the national meeting of the College Public Relations Association.

Far ranging diversity of activities again characterized operations of the Department. The United Fund campaign, annual reports, tours, special events, news conferences, informational brochures—these were but some of its services and responsibilities.

The Department is now gearing for an increase in activities commensurate with the Medical University's unparalleled growth.

AUDIOVISUAL RESOURCES

With the assistance of a two-year federal grant of \$396,267 carrying through the 1973-74 fiscal year, a number of major objectives was accomplished.

(1) There was increased integration of media into the curriculum in support of classroom instruction as well as in connection with small group and individualized learning which contributed in varying degrees to a shortening and modification of selected curricula.

(2) The improvement of classroom facilities with the installation of complete AV packages helped to accommodate recent increases in overall student enrollment.

(3) New mediated programs were produced and innovative modifications of existing educational programs were introduced in surgery, nursing, dentistry, psychiatry, anatomy and pharmacy, as well as in connection with the statewide TV dissemination of grand rounds and continuing education programs. TV image magnification, remote viewing and immediate and mobile delayed videotape playback were the principal modes adapted to the above teaching disciplines.

Eight scientific exhibits were produced for presentation at national meetings and in connection with the Sesquicentennial celebration of the Medical College. Two of these displays, one on urethral injuries and another on orthoptics and prisms, received awards of excellence. Four color sound films were presented at national medical meetings, and a first place award for a surgical photo sequence was received at a meeting of the Biological Photographic Association.

The Sesquicentennial projects included two impressive displays, one on rare books and another on historical medical equipment. An observer-operated light and sound diorama depicting the growth of the Medical University complex during the last 150 years was also constructed. A color sound motion picture was produced in which 150 years of tradition, progress and excellence were depicted, and copies were distributed to network stations. A granite monument, 6-feet high with descriptive bronze medallions and a plaque was also designed and installed in front of the Administration Building. A time capsule with selected items which may be of interest to a future generation will be inserted in the base of the monument later this winter.

With a combined federal and state equipment budget of approximately \$66,000, it was possible to complete the installation of

a broadcast compatible TV production facility in the Basic Science Building now valued at \$750,000. Further, all major classrooms, learning centers and auditoria are now adequately equipped with color TV monitors as well as with an array of film and slide projectors. The AV equipment pool, which serves the entire university, has an assortment of about 350 pieces of AV hardware, such as projectors and recorders, for short term loan and for replacement of classroom devices in repair.

Several other major items procured during the past year include a color videotape editor-recorder and five videocassette players for the TV Division, a clinical camera and studio lighting system and an automatic film processor for medical photography and a dual picture and sound motion picture editor and animation stand for cinematography. These modern devices are contributing to a more efficient operation by shortening production time and increasing quality control of programs.

PRODUCTION AND OTHER SERVICES

(Projects Completed)

Art	711	(including 8 scientific exhibits)
Cinematography	68	(16mm educational films)
Classroom Support	867	(plus 1,500 equipment loans)
Instructional Development ...	38	(29 new and 9 modified programs)
Photography	3,335	(primarily still photography)
Television	1,465	(including 241 productions as well as playback, dubbing, and engineering projects)
Total: FY 73-74	6,484	
FY 72-73	4,802	
FY 71-72	3,944	
FY 70-71	2,809	

STUDENT-EMPLOYEE HEALTH SERVICES

The general health of the students and employees was good during the past year, with an increase in the number of visits due to an increase in the population and in pre-employment physical examinations rather than to an increased incidence or severity of disease. Altogether, Health Services received 17,132 visits. The number of influenza cases was smaller and the symptoms milder than the previous year.

A decision was made to move the present location of the Health Services in the Medical University Hospital to a building, recently

purchased, about two blocks away. It will provide about twice the floor space currently available and allow for the eventual installation of infirmary facilities.

FISCAL AFFAIRS

The Medical University operated during the fiscal year with a State-appropriated budget of \$47,791,725, an increase of 27 percent over the preceding year. The funding provided timely assistance in coping with the effects of inflation as well as meeting such new obligations as the Medical Education Consortium and State-Wide Family Practice Residency Programs, enlarging and improving physical facilities and upgrading teaching and patient care facilities.

The reporting period witnessed the completion of the West-Wing Addition to the Hospital, which provides space for rehabilitation medicine diagnostic and treatment facilities, and cardiac care facilities, at a cost of \$1,610,507. Shelled-in space on the upper floors of the Basic Science Building was also completed at a cost of \$277,631.

A total of \$366,000 was expended as part of the Hospital Renovation Project to expand the emergency power distribution system, to install a trash and linen conveyance system, for equipment replacement and for other urgently needed renovation work. The renovation of Baruch Auditorium was completed. Work on the Clinical Science Building progressed to 19 percent completion. Steps were taken to relocate the animal facilities from the former site at Fort Johnson to the Ladson site.

The Budget Office of the University, in cooperation with the State Budget and Control Board, continued its emphasis on a program budgeting system in which the various budgetary units submit detailed information on plans for programmatical development. This information, in combination with data gleaned from the position budgeting system, provides specific factors which facilitates the preparation of the annual budget.

Two independent audits were performed on the financial records of the University during the year, both of which reflected unqualified opinions.

A third cost allocation study was conducted which, it is anticipated, will provide additional data on current educational costs.

The Business Operations Section of the University experienced a substantial increase in its workload.

The Mail Services Section processed approximately 24,000 pieces of mail per day. Some 42 percent of this mail was incoming, 34 percent was outgoing and 24 percent was campus mail. Through contract purchases, substantial savings were realized in the cost of various supplies such as laboratory glassware, chemicals, furniture and equipment. A shuttle bus system was established to provide additional parking for personnel and visitors to the Medical University. The Microfilming Section processed 2,647,160 pages of documentation on microfilm, more than doubling its output for the previous year. The volume of work processed by Student Aid Office increased by approximately 30 percent. It is estimated that the Student Aid Office aided in excess of 50 percent of the students enrolled on campus at a funding level of approximately \$800,000 from ten major financial aid programs and numerous scholarship and loan funds from outside sources were administered.

The Internal Auditing Department performed audits on the accounting systems of the University, including the payroll distribution system, general accounting systems and various cash funds and work in conjunction with the outside auditors. This department worked with other areas in developing new methods of internal control and in pinpointing problem areas.

The University Computer Center successfully implemented a new computer system during the year, the 370/145 system. The capability for teleprocessing was developed and experience gained in its use. Plans were drawn and developed for a patient information system for the Medical University Hospital. The Computer Center also participated actively in the preparation of the specifications, proposal and contract for a new laboratory computer system for the Hospital.

STATEMENT OF CURRENT FUNDS REVENUES, EXPENDITURES AND OTHER CHANGES

For the Years Ended June 30, 1974 and 1973

	Unrestricted	1974 Restricted	Total	1973 Total
REVENUES:				
Educational and general:				
State appropriations:				
Academic operations	\$23,143,049	\$	\$23,143,049	\$14,802,140
Academic fringe benefits	2,280,549		2,280,549	1,751,770
Hospital operations	7,814,445		7,814,445	6,856,570
Hospital fringe benefits	1,633,878		1,633,878	1,380,414
Net patient service revenue:				
Hospital	15,670,623		15,670,623	12,434,649
Academic clinics	198,838		198,838	162,187
Federal grants and contracts	926,615	9,616,968	10,543,583	9,129,093
Non-federal gifts, grants, and contracts	75,693	511,113	586,806	511,292
Laboratories	1,709,627		1,709,627	1,537,661
Student fees	352,281		352,281	419,866
Departmental fees, sales, and services	1,282,981		1,282,981	931,800
Other	235,157	152,358	387,515	189,059
Total educational and general	\$55,323,736	\$10,280,439	\$65,604,175	\$50,106,501
Auxiliary enterprises	\$ 770,752	\$	\$ 770,752	\$ 633,654
Total revenues	\$56,094,488	\$10,280,439	\$66,374,927	\$50,740,155

EXPENDITURES AND MANDATORY TRANSFERS:

Educational and general:				
Instruction and departmental research:				
College of Medicine	\$ 9,410,495	\$ 39,397	\$ 9,449,892	\$ 7,797,756
College of Dental Medicine	3,033,130		3,033,130	2,293,667
College of Nursing	846,322		846,322	630,682
College of Pharmacy	469,750		469,750	378,428
College of Allied Health Sciences	581,889		581,889	453,711
College of Graduate Studies	281,922		281,922	240,400
Psychiatric Training Program	193,310		193,310	154,961
Total instruction and departmental research	\$14,816,818	\$ 39,397	\$14,856,215	\$11,949,605
Supporting services for instruction and research departments	\$ 1,069,990	\$	\$ 1,069,990	\$ 846,817
Hospital patient services (including outpatient clinic)	\$19,608,803	\$	\$19,608,803	\$16,840,917
Sponsored research and other sponsored programs:				
Public service	\$	\$ 3,349,238	\$ 3,349,238	\$ 4,406,128
Research	6,910	2,054,268	2,061,178	1,765,696
Basic improvements	861	2,153,820	2,154,681	1,321,811
Training	1,754,418	2,519,084	4,273,502	1,351,352
Other		2,838	2,838	650
Total sponsored research and other sponsored programs	\$ 1,762,189	\$10,079,248	\$11,841,437	\$ 8,845,637

**STATEMENT OF CURRENT FUNDS REVENUES, EXPENDITURES AND
OTHER CHANGES—(Continued)**

	Unrestricted	1974 Restricted	Total	1973 Total
Laboratories	\$ 1,572,824	\$	\$ 1,572,824	\$ 1,378,615
Clinics (cancer, cardiac, dental, etc.)	\$ 213,871	\$	\$ 213,871	\$ 179,217
Library	\$ 494,914	\$ 717	\$ 495,631	\$ 394,637
General administration and institutional expenses	\$ 4,911,006	\$ 26,217	\$ 4,937,223	\$ 4,171,733
Operation and maintenance of physical plant	\$ 5,928,918	\$	\$ 5,928,918	\$ 4,701,218
Student Aid:				
Federal	\$	\$ 84,389	\$ 84,389	\$ 128,360
Non-federal aid	11,754	50,471	62,225	46,494
Total student aid	\$ 11,754	\$ 134,860	\$ 146,614	\$ 174,854
Total educational and general expenditures	\$50,391,087	\$10,280,439	\$60,671,526	\$49,483,250
Mandatory transfer for principal payment	\$ 25,000	\$	\$ 25,000	\$ 24,000
Total educational and general	\$50,416,087	\$10,280,439	\$60,696,526	\$49,507,250
Auxiliary enterprises:				
Expenditures	\$ 582,328	\$	\$ 582,328	\$ 477,141
Mandatory transfer for interest payment	19,362	.....	19,362	19,074
Total auxiliary enterprises	\$ 601,690	\$	\$ 601,690	\$ 496,215
Total expenditures and mandatory transfers	\$51,017,777	\$10,280,439	\$61,298,216	\$50,003,465
OTHER TRANSFERS AND ADDITIONS (DEDUCTIONS),				
Allocation to plant funds	\$ (668,176)	\$	\$ (668,176)	\$ (1,052,667)
Transfer from (to) unexpended plant funds .....	.....	24,500	24,500	(39,500)
Transfer of funds to Health Sciences Foundation	(2,093)	(86,000)	(88,093)	.....
Refunds to grantors .....	.....	(27,466)	(27,466)	(3,348)
Return of unexpended consortium funds to State	(61,407)	.....	(61,407)	.....
Excess (deficiency) of additions to restricted current funds over transfer to revenues and re- covery of indirect costs .....	.....	(59,230)	(59,230)	434,217
Other transfers and addi- tions (deductions)—				
Net	\$ (731,676)	\$ (148,196)	\$ (879,872)	\$ (661,298)
NET INCREASE (DECREASE) IN FUND BALANCES	\$ 4,345,035	\$ (148,196)	\$ 4,196,839	\$ 75,392

MEDICAL UNIVERSITY PUBLICATIONS

1971	Cost Allocation Study
1972	Library Serials Catalogue
1973	Personnel Manual
1974	Employee Development Training Programs
1975	Over The Counter Drug Study
1976	Faculty Hand Book
1977	Pharmacy Formulary
1978	Spinal Cord Injury Record
1979	Campus Telephone Books
1980	Physicians' Placement Service
1981	House Staff Manual
1982	Financial Information System
1983	Fire Manual
1984	Dental Self-instructional Guide Series
1985	Course manuals for numerous departments
1986	All university news publications
1987	Student Calendars
1988	Departmental Recruitment Brochures
1989	University Directory
1990	Lead Poisoning Brochures
1991	Medical University Wives Cookbook
1992	A Clinical Approach to Fetal Monitoring
1993	Surgery Annual Report
1994	Educational Opportunities
1995	Alumni Bulletin
1996	Medical University Review
1997	Graduation and Appreciation Certificates
1998	Color aerial print for all employees
1999	Hospital Directory

